

Name : _____ Score : _____

Teacher : _____ Date : _____

Dividing Rational Expressions

Simplify each expression.

$$1) \frac{44b - 24}{9} \div \frac{110b - 60}{9b}$$

$$6) \frac{12d^2}{11} \div \frac{10d}{9}$$

$$2) \frac{33q^2 - 79q + 40}{6q^2 - 37q + 45} \div \frac{q^2}{20q^2 - 78q - 54}$$

$$7) \frac{z^2 + 15z + 56}{z^2 + 11z + 28} \div \frac{1}{z + 4}$$

$$3) \frac{8y}{y + 10} \div \frac{8y}{2y + 20}$$

$$8) \frac{s - 6}{s - 2s - 24} \div \frac{9s}{s - 11}$$

$$4) \frac{2c}{10} \div \frac{4}{6}$$

$$9) \frac{12p}{5} \div \frac{7}{11}$$

$$5) \frac{42h^2 - 10h - 88}{70h^2 - 194h + 132} \div \frac{h^2}{50h^2 + 30h - 108}$$

$$10) \frac{5r^2}{3} \div \frac{12r}{8}$$

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$$1) \frac{44b - 24}{9} \div \frac{110b - 60}{9b}$$

$$\frac{2b}{5}$$

$$6) \frac{12d^2}{11} \div \frac{10d}{9}$$

$$\frac{54d}{55}$$

$$2) \frac{33q^2 - 79q + 40}{6q^2 - 37q + 45} \div \frac{q^2}{20q^2 - 78q - 54}$$

$$\frac{2(11q - 8)(5q + 3)}{q^2}$$

$$7) \frac{z^2 + 15z + 56}{z^2 + 11z + 28} \div \frac{1}{z + 4}$$

$$z + 8$$

$$3) \frac{8y}{y + 10} \div \frac{8y}{2y + 20}$$

$$2$$

$$8) \frac{s - 6}{s - 2s - 24} \div \frac{9s}{s - 11}$$

$$\frac{s - 11}{9s(s - 4)}$$

$$4) \frac{2c}{10} \div \frac{4}{6}$$

$$\frac{3c}{10}$$

$$9) \frac{12p}{5} \div \frac{7}{11}$$

$$\frac{132p}{35}$$

$$5) \frac{42h^2 - 10h - 88}{70h^2 - 194h + 132} \div \frac{h^2}{50h^2 + 30h - 108}$$

$$\frac{2(3h + 4)(5h + 9)}{h^2}$$

$$10) \frac{5r^2}{3} \div \frac{12r}{8}$$

$$\frac{10r}{9}$$